

Yoonjeong Park

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RESEARCH INTERESTS

(Singing) Voice Conversion, Music Generation, Music Information Retrieval, Speech Recognition, Text-guided Image Generation

EDUCATION

Sep.2019 - Present	Korea Advanced Institute of Science and Technology (KAIST) M.S. Student in Graduate School of Artificial Intelligence Music and Audio Computing Lab (Advisor: Juhan Nam)	Daejeon, Korea
Mar.2019 - Aug.2024	Yonsei University B.S in Computer Science, overall GPA: 3.8/4.3 [CS] 3.96 /4.3 Recipient of scholarship 2022-1 GPA: 4.24/4.3	Seoul, Korea
Jan.2023 - April.2023	University of British Columbia Exchange Student in Computer Engineering Relevant Course: Topics in Computer Engineering – deep learning	Vancouver, Canada

PUBLICATIONS

†: Corresponding author, *: Equal contribution

[1] Can Separators Improve Chain-of-Thought Prompting? | paper

Yoonjeong Park*, Hyunjin Kim*, Chanyeol Choi, Junseong Kim†, Jy-yong Sohn† (Preprint)

RESEARCH EXPERIENCE

Mar.2024- Present	Undergraduate Research Intern at DSP&AI Lab. <ul style="list-style-type: none">Conduct research aimed at improving intelligibility using soft speech units proposed in the SoftVC paperSummarized the research progression in Voice Conversion and presented it
Jun.2021 - Aug.2021	Undergraduate Research Intern at Cyber Security Lab. <ul style="list-style-type: none">Participated in research project of reverse engineering using GNN to predict function name from kernel binary codeAnalyzed baseline paper <u>NERO</u>'s data pre-processing code and implemented pre-processing code for our dataset based on NERO's data pre-processing code

INDUSTRY EXPERIENCE

Sep.2023 - Feb.2024	Linq company <i>Research Intern</i> Cambridge, Massachusetts, United States (REMOTE) <ul style="list-style-type: none">Advised by Prof. <u>Jy-yong Sohn</u>, Dr. <u>Junseong Kim</u>Led a project focused on enhancing Chain-of-Thought promptingProposed and developed a novel method "CoT-Sep" to help Large Language Models (LLMs) understand their thought processes better while reasoning.
Jun.2021 - Jan.2022	ESOL company <i>R&D Center, Intern</i> Hwaseong City, Korea <ul style="list-style-type: none">Participated in development of EUV inspection equipment which use detection model to detect defect in image datasetManaged and coordinated the outsourcing company's requirements and presented performance of developed model bi-weekly

SELECTED PROJECTS

- Oct. 2023 - **Speech Recognition for Korean Dialect | Github Repo**
Dec. 2023 *Developed a specialized speech recognition model for Korean regional Dialect*
- Preprocessed Korean Dialect dataset from AI hub and trained Deepspeech2 model using open-source toolkit, [kospeech](#)
 - Achieved model performance comparable to that of Faster Whisper on test dataset reducing CER (Character Error Rate) to 0.2
- Jan. 2024 - **Real-Time Multilingual Chatbot for Gaming| Github Repo**
Feb. 2024 *Developed a discord bot for a real-time STT-translate-TTS*
- Enhanced STT performance on streaming audio using AWS transcribe
 - Implemented a discord bot to send translated text to users for TTS
- Mar. 2022 - **Auto White Balance for Multi-illuminant | Github Repo**
May. 2022 *Researched and enhanced Auto White Balance models for multi-illuminant scenes*
- Modified U-Net3+ to perform regression task per pixel and improved performance compared to the baseline U-Net model
 - Conducted extensive research on vision transformer models for AWB task and trained Swin-UperNet model and evaluated its performance in comparison to U-Net and U-Net3+ models

COMPETITIONS & AWARDS

- Jan.2023 **Certificate of Excellence** *Linq company*
Awarded as R&D intern
- Oct.2023 - **Special Award** *2023 Software University AI Competition*
Dec.2023 *Developed AI Model for Satellite Image Building Area Segmentation | Github Repo*
- July.2023 - **10th place / 110 teams** *2023 Korean Language Competition*
Oct.2023 *Developed specialized speech recognition Model for Elderly people and children*
- Dec. 2023 **Popularity Award** *2023 Software Capstone Design, Yonsei University*

SKILLS

- Deep Learning: Pytorch
- Data Science: Numpy, R
- System Admin: Docker
- Version Control: Git
- Operating System: Linux, macOS, windows

LANGUAGES

- Korean: Native
- English:
TEPS: 447 (Mar. 09. 2024 ~ Mar. 09. 2026)
TOEFL iBT: 102 (Dec. 18. 2021 ~ Dec. 18. 2023, Expired)
- Python, C++, Java, MySQL, PostgreSQL
(* in the order of fluency)

EXTRACURRICULAR ACTIVITIES

- 2023 - **YAI (Yonsei Artificial Intelligence Club at Computing College)**
PRESENT
 - Leading Industry Collaboration as Vice President
 - Conducted Speech, Generative models [paper review](#) study
 - Participated in Vision and Language Multimodal paper review study
- 2020 - **PoolC (Programming Club at Engineering College)**
PRESENT
 - Led basic algorithm study, machine learning study
 - Participated in Transformer, Computer Vision paper review study